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CATSPER channel-mediated Ca²⁺ entry into mouse sperm triggers a tail-to-head propagation.

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☐ **2:** Liu J, Xia J, Cho KH, Clapham DE, Ren D.

Related Articles, 1



CatSperbeta, a novel transmembrane protein in the CatSper channel complex.

J Biol Chem. 2007 Jun 29;282(26):18945-52. Epub 2007 May 3.

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☐ **3:** Navarro B, Kirichok Y, Clapham DE.

Related Articles, 1



KSper, a pH-sensitive K⁺ current that controls sperm membrane potential.

Proc Natl Acad Sci U S A. 2007 May 1;104(18):7688-92. Epub 2007 Apr 25.

PMID: 17460039 [PubMed - indexed for MEDLINE]

☐ **4:** Li HG, Ding XF, Liao AH, Kong XB, Xiong CL.

Related Articles, 1



Expression of CatSper family transcripts in the mouse testis during post-natal development and human ejaculated spermatozoa: relationship to sperm motility.

Mol Hum Reprod. 2007 May;13(5):299-306. Epub 2007 Mar 8.

PMID: 17347248 [PubMed - indexed for MEDLINE]

☐ **5:** Kong LJ, Yang YY, Wang GL.

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[CatSper and sperm hyperactivation]

Zhonghua Nan Ke Xue. 2007 Feb;13(2):164-7. Review. Chinese.

PMID: 17345777 [PubMed - indexed for MEDLINE]

☐ **6:** Jin J, Jin N, Zheng H, Ro S, Tafolla D, Sanders KM, Yan W.








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Catsper3 and Catsper4 are essential for sperm hyperactivation motility and male fertility in the mouse.

Biol Reprod. 2007 Jul;77(1):37-44. Epub 2007 Mar 7.

PMID: 17344468 [PubMed - indexed for MEDLINE]

-  **7:** Qi H, Moran MM, Navarro B, Chong JA, Krapivinsky G, Krapivinsky L, Kirichok Y, Ramsey IS, Quill TA, Clapham DE. Related Articles, |
All four CatSper ion channel proteins are required for male fertility and sperm cell hyperactivated motility.
Proc Natl Acad Sci U S A. 2007 Jan 23;104(4):1219-23. Epub 2007 Jan 23.
PMID: 17227845 [PubMed - indexed for MEDLINE]
-  **8:** Benoff S, Chu CC, Marmar JL, Sokol RZ, Goodwin LO, Hurley IR. Related Articles, |
Voltage-dependent calcium channels in mammalian spermatozoa revisited.
Front Biosci. 2007 Jan 1;12:1420-49. Review.
PMID: 17127392 [PubMed - indexed for MEDLINE]
-  **9:** Yang YY, Wang GL. Related Articles, |
[Expression characteristics of mouse Catsper--the structural protein of sperm hyperactivation]
Zhonghua Nan Ke Xue. 2006 Aug;12(8):675-80. Chinese.
PMID: 16970151 [PubMed - indexed for MEDLINE]
-  **10:** Kirichok Y, Navarro B, Clapham DE. Related Articles, |
Whole-cell patch-clamp measurements of spermatozoa reveal an alkaline-activated Ca²⁺ channel.
Nature. 2006 Feb 9;439(7077):737-40.
PMID: 16467839 [PubMed - indexed for MEDLINE]
-  **11:** Clapham DE, Garbers DL. Related Articles, |
International Union of Pharmacology. L. Nomenclature and structure-function relationships of CatSper and two-pore channels.
Pharmacol Rev. 2005 Dec;57(4):451-4. Review. No abstract available.
PMID: 16382101 [PubMed - indexed for MEDLINE]
-  **12:** Okunade GW, Miller ML, Pyne GJ, Sutliff RL, O'Connor KT, Neumann JC, Andringa A, Miller DA, Prasad V, Doetschman T, Paul RJ, Shull GE. Related Articles, |
Targeted ablation of plasma membrane Ca²⁺-ATPase (PMCA1 and 4) indicates a major housekeeping function for PMCA1 and a critical role in hyperactivated sperm motility and male fertility for PMCA4.
J Biol Chem. 2004 Aug 6;279(32):33742-50. Epub 2004 Jun 3.
PMID: 15178683 [PubMed - indexed for MEDLINE]
-  **13:** Nikpoor P, Mowla SJ, Movahedin M, Ziaee SA, Tiraihi T. Related Articles, |
CatSper gene expression in postnatal development of mouse testis and in subfertile men with deficient sperm motility.
Hum Reprod. 2004 Jan;19(1):124-8.
PMID: 14688170 [PubMed - indexed for MEDLINE]

- ☐ **14:** [Carlson AE, Westenbroek RE, Quill T, Ren D, Clapham DE, Hille B, Garbers DL, Babcock DF.](#) Related Articles, 1



CatSper1 required for evoked Ca²⁺ entry and control of flagellar function in sperm.
Proc Natl Acad Sci U S A. 2003 Dec 9;100(25):14864-8. Epub 2003 Dec 1.
PMID: 14657352 [PubMed - indexed for MEDLINE]

- ☐ **15:** [Lobley A, Pierron V, Reynolds L, Allen L, Michalovich D.](#) Related Articles, 1



Identification of human and mouse CatSper3 and CatSper4 genes: characterisation of a common interaction domain and evidence for expression in testis.
Reprod Biol Endocrinol. 2003 Aug 1;1:53.
PMID: 12932298 [PubMed - indexed for MEDLINE]

- ☐ **16:** [Quill TA, Ren D, Clapham DE, Garbers DL.](#) Related Articles, 1



A voltage-gated ion channel expressed specifically in spermatozoa.
Proc Natl Acad Sci U S A. 2001 Oct 23;98(22):12527-31.
PMID: 11675491 [PubMed - indexed for MEDLINE]

- ☐ **17:** [Ren D, Navarro B, Perez G, Jackson AC, Hsu S, Shi Q, Tilly JL, Clapham DE.](#) Related Articles, 1



A sperm ion channel required for sperm motility and male fertility.
Nature. 2001 Oct 11;413(6856):603-9.
PMID: 11595941 [PubMed - indexed for MEDLINE]

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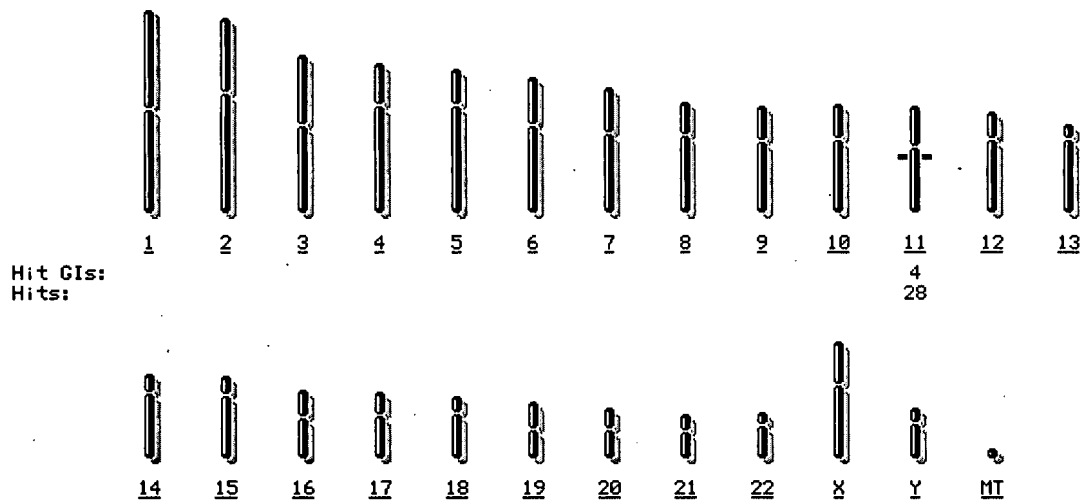
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		NT_033903	CONTIG	13	2246	0.0
11	Celera	NM_053054 Homo sapiens cation channel, sperm associated 1 (CATSPER1), mRNA	TRANSCRIPT	1	4305	0.0